

CLOSURE OVERSIGHT ACTIVITIES

**LITTON COMPANY
INSTRUMENTS & LIFE SUPPORT DIVISION
DAVENPORT, IOWA**

TRIP REPORT

Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 7, RCRA/IOWA
Kansas City, Kansas 66101**

Work Assignment No.	:	R07015
EPA Region	:	7
EPA ID No.	:	IAD005268420
Date Prepared	:	August 22, 1994
Contract No.	:	68-W4-0004
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8.22.94

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TRIP REPORT FOR CLOSURE OVERSIGHT ACTIVITIES

**Litton Company
Instruments & Life Support Division
Davenport, Iowa**

PURPOSE

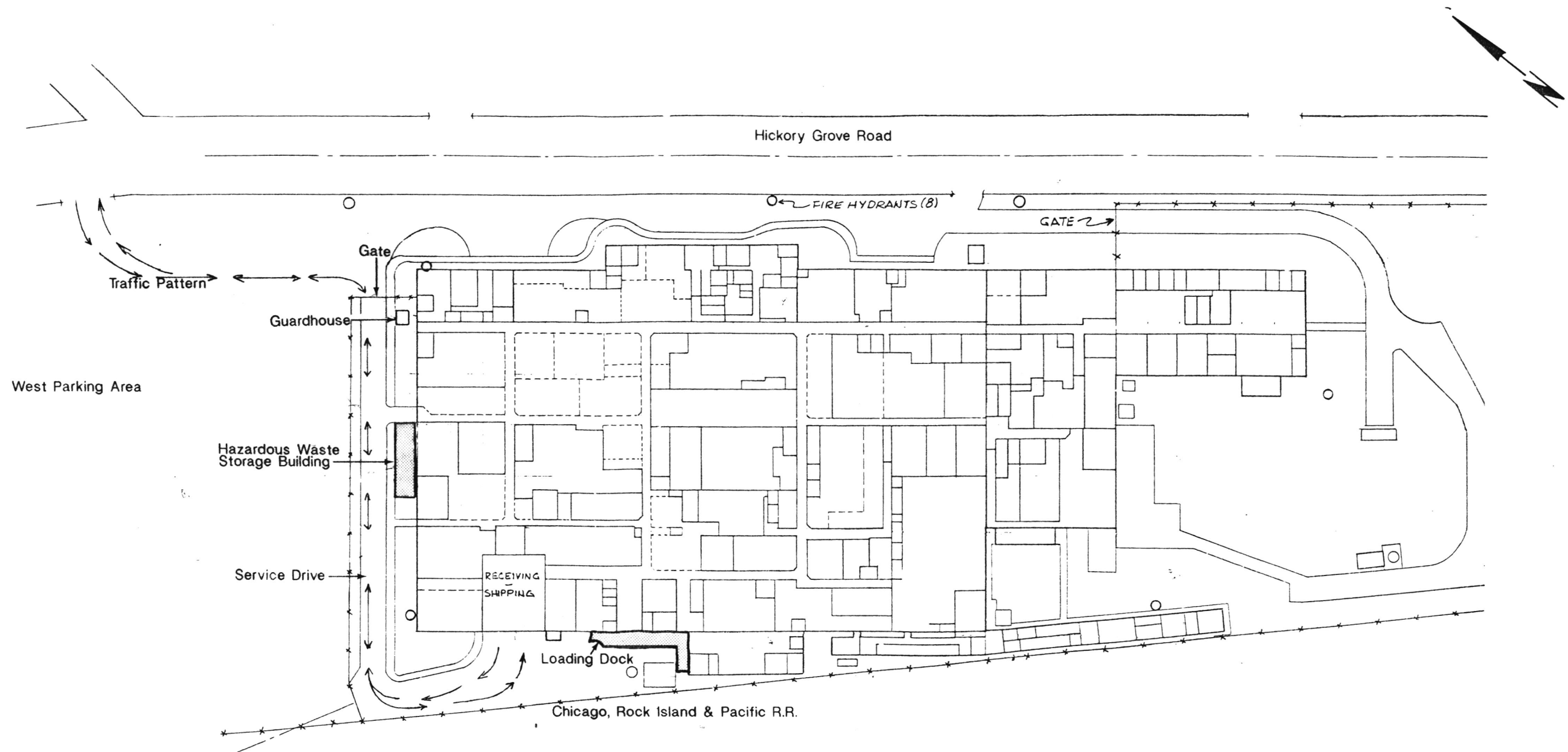
PRC Environmental Management, Inc. (PRC), oversaw closure activities at the interim hazardous waste storage area at the Litton Company's Instruments & Life Support Division (Litton) in Davenport, Iowa. The interim hazardous waste storage area is located on a loading dock on the western side of the facility. The specific objective of the oversight was to observe and document facility closure activities with photographs (see Attachment A) and field notes (see Attachment B).

FIELD WORK

Ms. Claudia Vines of PRC performed closure oversight of the Litton facility's hazardous waste storage area on August 9, 1994. She arrived on site at 8:00 a.m. and met with Mr. Richard Sederquist, Manager of Safety and Environmental Programs for Litton. Also present during the closure activities was Litton's project contractor, Mr. Carmelo Blazekovic, of SCS Engineers, Kansas City, Missouri. Litton contracted Clean Harbors Environmental Services (Clean Harbors) to conduct sandblasting of the surface and sides of the loading dock and to collect a sample of the sandblasting dust for analysis. Ms. Aleida Anderson, Mr. Kevin Walker, Mr. Mark Whitney, and Mr. John Greivell made up the sandblasting crew from Clean Harbors. Ms. Vines observed some stains and cracks on the surface and sides of the loading dock before closure activities began.

The facility used the loading dock as an interim hazardous waste storage area from June 1982 through April 1985 and from March through July 1993. The area held drums of hazardous wastes with the following waste codes: F001, F006, D001, and D002. The loading dock is located on the western side of the facility, outside the building. A copy of the facility layout is provided in Figure 1.

When Ms. Vines arrived at the facility, she observed that plastic sheeting had been placed around the perimeter of the loading dock area in an effort to stop sandblasting dust from being released into the environment (see Photograph 1). Mr. Sederquist stated that the Clean Harbors crew hung the plastic



SCALE UNKNOWN

Source: Modified from Litton Facility Layout Map, Undated.

LITTON INSTRUMENTS & LIFE SUPPORT DIVISION
DAVENPORT, IOWA

FIGURE 1
FACILITY LAYOUT

PRC ENVIRONMENTAL MANAGEMENT, INC.

sheeting the night before. Black Magnum coal slag abrasive blasting crystals were used as the sandblasting medium. Mr. Greivell stated that this was a low-dust crystal, and he did not expect much problem with dust.

Sandblasting activities began at 9:03 a.m. The work crew started sandblasting at the western end of the loading dock. About 10 minutes later, Mr. Sederquist requested that a water mister be used with the sandblasting activities to reduce the dust level (see Photograph 2). The work crew obtained a mister and sandblasting activities continued in conjunction with the mister (see Photograph 3). Approximately 20 minutes later, Mr. Sederquist again stopped the sandblasting operations because of visible dust release to the area outside the plastic. Mr. Sederquist and Mr. Blazekovic determined that the rest of the dock area should be covered with plastic sheeting to minimize release of the dust. The Clean Harbors crew encapsulated the dock area by dropping sheeting down from the roof to the ground to contain the dust (see Photographs 4 and 5). Sandblasting operations were resumed about 1.5 hours later. Sandblasting operations continued until visibility inside the plastic was so poor that the crew decided to stop to allow the dust to settle (see Photograph 6). Mr. Sederquist also requested that the ends of the encapsulation be covered because dust was still escaping. The work crew covered the western end with plastic but recommended that the eastern end be left open to allow some ventilation in the encapsulation during the sandblasting operations. Mr. Sederquist agreed to this approach (see Photographs 7 and 8).

The work crew completed sandblasting the top of the dock at 1:30 p.m. and took an hour break for lunch and to allow the dust to settle. At 2:30 p.m., the work crew began sandblasting the sides of the dock. Sandblasting activities were completed around 4:00 p.m. The work crew allowed the dust to settle and began drumming the blasting dust at approximately 4:30 p.m. (see Photograph 9).

Ms. Vines left the site at approximately 5:10 p.m., while the work crew was still shovelling blasting dust off the dock. Ms. Vines contacted Mr. Sederquist on August 10, 1994, and he stated that the crew shovelled the dust until approximately 7:00 p.m. and then used a shop vacuum to collect the dust from the corners of and cracks in the dock. All dust was shovelled into seven 55-gallon drums and placed in the facility's current hazardous waste storage area until analysis of the waste is completed (see Photograph 10 and Figure 1). Mr. Sederquist stated that he collected one composite sample of blasting crystal dust from the top of the dock as it was being drummed. He stated that he

will take the sample to Beling Analytical in Moline, Illinois, for analysis of hazardous constituents. Mr. Sederquist also stated that a few stains remained on the dock after cleanup on August 9, 1994, so he had the work crew redo those areas on the morning of August 10, 1994.

DEVIATIONS FROM PROPOSED FIELD WORK

PRC did not observe any deviations from the approved closure plan.

OBSERVATIONS

The following observations were made during the Litton closure activity oversight:

- Dust and sandblasting crystals were released from the sandblasting area and settled outside the enclosed sandblasting area. As a result, the facility placed plastic sheeting over the top and sides of the loading dock to minimize any dust release.
- Dust from the sandblasting crystals was visible throughout the sandblasting operations. Placing the plastic sheeting over the top of the dock area helped to minimize release of the dust into the air.
- Mr. Sederquist stated in a telephone conversation on August 10, 1994, that some stains remained on top of the dock. The work crew sandblasted those areas again in an effort to clean all staining from the dock.

DATA SUMMARY

EPA did not request that PRC collect a split sample of the sandblasting dust. Therefore, no sample analysis or data summary was performed.

SUMMARY

PRC performed closure oversight of the Litton facility's interim hazardous waste storage area located on a loading dock on the western side of the facility. PRC observed sandblasting of the top and sides of the loading dock. Plastic sheeting was used to minimize the release of sandblasting dust to the environment. The facility collected one composite sample, which will be analyzed for hazardous constituents. At the request of EPA, PRC did not collect split samples.

ATTACHMENT A
PHOTOGRAPHIC RECORD

LITTON COMPANY INSTRUMENTS AND LIFE SUPPORT DIVISION
Davenport, Iowa



Photograph: 1 Direction: Southeast Photographer: Claudia Vines
Date/Time: 08/09/94, 0855 Description: Plastic sheeting was placed around the loading dock area to minimize the release of sandblasting dust particles.



Photograph: 2 Direction: Northwest Photographer: Claudia Vines
Date/Time: 08/09/94, 0935 Description: A thick white dust was visible during sandblasting operations.

LITTON COMPANY INSTRUMENTS AND LIFE SUPPORT DIVISION
Davenport, Iowa

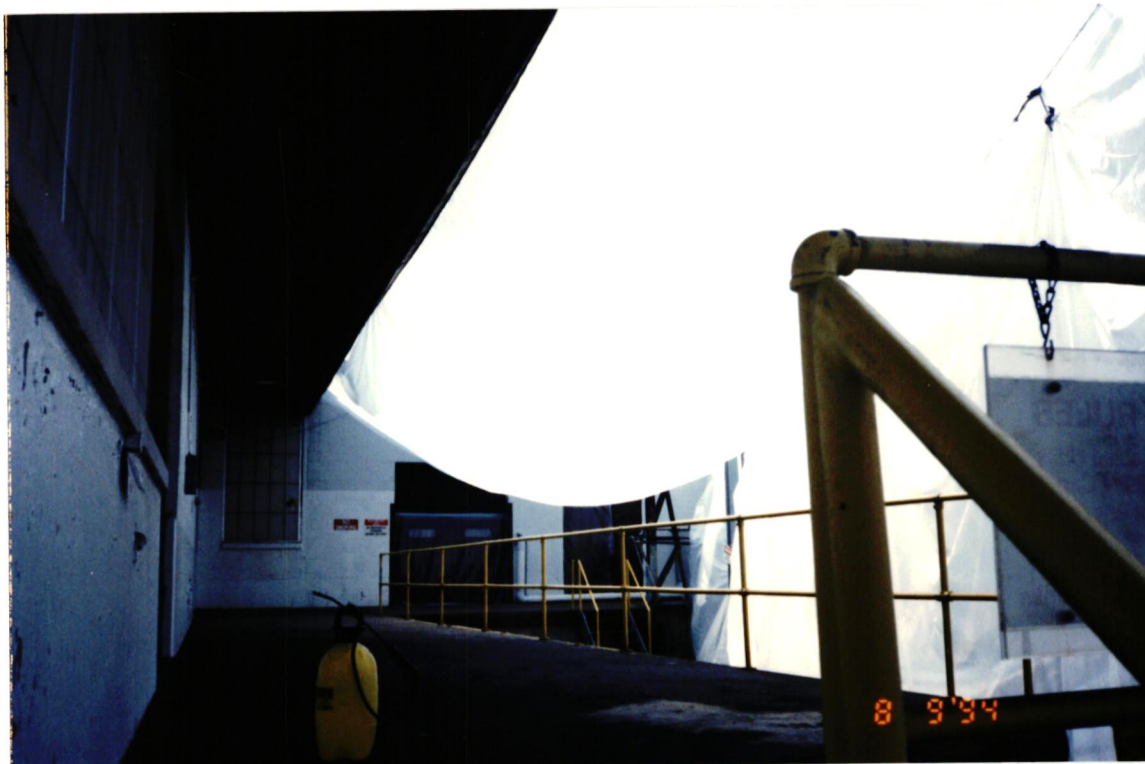


Photograph: 3 Direction: Northwest Photographer: Claudia Vines
Date/Time: 08/09/94, 0936 Description: The work crew used a water mister to attempt to reduce the spread of dust particulate during sandblasting operations.



Photograph: 4 Direction: North Photographer: Claudia Vines
Date/Time: 08/09/94, 1051 Description: Plastic sheeting was dropped from the roof of the facility to encapsulate the area to minimize dust release. Dust release did continue, however, at the left upper corner of the plastic.

LITTON COMPANY INSTRUMENTS AND LIFE SUPPORT DIVISION
Davenport, Iowa



Photograph: 5 Direction: East Photographer: Claudia Vines
Date/Time: 08/09/94, 1040 Description: This photograph shows a view of the plastic sheeting over top of the dock area from inside the encapsulation.



Photograph: 6 Direction: East Photographer: Claudia Vines
Date/Time: 08/09/94, 1123 Description: A thick dust was created by sandblasting operations, resulting in poor visibility inside the encapsulation.

LITTON COMPANY INSTRUMENTS AND LIFE SUPPORT DIVISION
Davenport, Iowa



Photograph: 7 Direction: Northeast Photographer: Claudia Vines
Date/Time: 08/09/94, 1125 Description: Another plastic sheet was dropped from the roof to close the air vent on the western end of the plastic sheeting encapsulation.



Photograph: 8 Direction: East Photographer: Claudia Vines
Date/Time: 08/09/94, 1255 Description: Sandblasting dust escaped from the eastern end of the plastic sheeting encapsulation.

LITTON COMPANY INSTRUMENTS AND LIFE SUPPORT DIVISION
Davenport, Iowa



Photograph: 9 Direction: East Photographer: Claudia Vines
Date/Time: 08/09/94, 1630 Description: The work crew is shown shovelling and drumming the sandblasting dust.



Photograph: 10 Direction: South Photographer: Claudia Vines
Date/Time: 08/09/94, 0850 Description: A view of the facility's current hazardous waste storage area.

ATTACHMENT B

FIELD NOTES

Litton - Instruments and Life Support Division
Davenport, Iowa

Number of employees: 260

Work week: M-F - little overtime

Describe the operations: Instruments + Life support systems
1982 to present - Litton dock here since 1942
after sandblasting - dock will be covered with high resin epoxy
used to be a Bendix plant

Describe HW onsite:

Aleida Anderson
Kevin Walker
Mark Whitney

Carmelo Blaze Kovic - Contractor for Litton

SCS Engineers

10401 Holmes Rd

Kansas City, MO 64119

(816) 941-7510

John Grivello - Project Manager

Clean Harbors Environmental Services, Inc.

Matteson, IL

~~Aluminum nitrate~~ - Blade Magnum^{coal slag} - a low dust crystal
Abrasive blasting crystals

Sandblasting operations began at 9:03 am

one composite sample will be taken at the end

Sandblasting stopped about 9:10 until a mister was obtained

mist to keep the dust down

Sandblasting began again at 9:30 am / and continuing
Operations stopped at 9:37 am

Facility and contractors decided to tarp the rest of the dock area on top to ^{protect from dust dispersion} collect dust - wind was ~~pretty~~ somewhat forceful today. 20-25 mph.

We could visibly see the dust over top of the dock
Contractor decided to hang plastic sheeting from roof to prevent or minimize dust dispersion

PM originally thought that the low dust crystals would be fine - but Rick S. made the decision to tarp off entire area.

10:40 - resumed sandblasting

11:00 am - Sandblasting operations ceased because dust was so high and visibility poor. Visible dust was escaping from both ends. PM + Rick decided to cover ends with plastic sheeting to reduce release of dust into the air. This will force the blasting ~~crystals~~ ^{dust} to fall to the ground

11:23 Began sandblasting again after ^{upper} west end was covered with plastic - east end was left open to allow ventilation

12:03 Short break

Analytical work at Beling Analytical in Moline

12:15 started again

1:30

Broke at 1:30 pm for lunch

2:30

Resumed sand blasting

done with top of dock - now working on sides

4:30

Drumming the blasting dust begins

A few areas still need to be touched up with the sand blasting

Photolog

Number	Direction	Time	Description
1	W	8:50	HW storage area - new location Concrete walls - enclosed
2	SE	9:55	Plastic sheeting surrounding dock area for sandblasting
3	SE	9:32	Plastic sheeting - dust from the top
4+5	NW	9:35	Sandblasting operations
6+7	NW	9:36	blasting operations
8	E	10:40	Plastic sheeting over top of dock area
9	N	10:51	Plastic sheeting cover hole/air vent in upper left corner of picture - dust escaping
10	E	11:23	Sandblasting operations
11+12	NE	11:25	Full view of plastic tarps
13	NE E	12:55	Sandblasting dust escaping on east end of plastic containment area
14+15	E	4:25	Drumming & suspension from